

	GGCACGAGTG TGCCTAACAG AGAAAGAGAG ACGATAGCC TCCTCATTCA CTATGGCGAT	60
	CCGATCGCCA GCTTCGCTGC TGTATTATTGC GTTTCGTGATG CTTGCGCTCA CAGGAAGACT	120
5	GCGAGCCGGG CGCAGCTCGT GCATTGGCGT CTA CTG GGGG CAAAACACAG ACGAGGGAAG	180
	CTTAGCAGAT GCTTGTGCCA CAGGCAACTA CGAATACGTG AACATCGCCA CCCTTTTCAA	240
10	GTTTGCGATG GGCCAAACTC CANAGATCAA CCTCGCCGGC CACTGTGACC CTCGGAACAA	300
	CGGCTGCGCG CGCTTAAGCA GAGAAATCCA GTCCGCCAG GAGCGTGGAG TCACGGTGAT	360
	GCTCTCCATC GGAGGTGGCG GGTCTTATGG CCTGAGTTCC ACCGAAGACG CCAAGGACGT	420
15	GGCGTCATAC CTCTGSCACA GTTCTTTGGG TGGTCTGCT GCTCGCTACT CTCGACCCCT	480
	CGGGGATGCG GTTCTGGATG GCATANACTT CAACATCNCC GGAGGGAGCA CAGAACACTA	540
20	TGATGAACCT GCGCCTTTCC TCAAGGGGCTA CNAAGAACAG GAAGCGGAA CGAAAAAANT	600
	TTTACTTGAA TGCTGCTCCC NCANTGTCCT TTCCCGGATT ACTGGCTTGG CACCCACTCA	660
	NAAAAATCT CTTCNACTT CCNTGTGGGT TGCANTTCCT CCAANAACCC TTCTTGGCN	720
25	TTTCTCCCA AACCTATCC ATCTTGCAAT TCCTTTCACA AATTGGGTCN TNCNTCC	780
	NGCCCNAAA ACTTTTCC TNGGCTCC	809

(2) INFORMATION FOR SEQ ID NO: 48:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 809 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

- (vii) IMMEDIATE SOURCE:
 (B) CLONE: U-D86

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 48:

	GGCACGAGCC ACAAGCTTGC CTTTGGTTGT GCCTAACAGA GAGAGAGAGA GAGACAGACC	60
	GATAGCCTCC TCATTCACTA TGCGCATCCG ATCGCCAGTT TCGTGTCTGT TATTTCGTT	120
50	TCTGATGCTT GCGCTCACAG GAAGACTGCA GGCCCGGCGC AACTCATGCA TTGCGCTCTA	180
	CTGGGGACAA AAGACAGACG AGGGAAGCTT AGCAGATGCT TGTGCCACAG GCAACTACGA	240
55	ATACGTGAAC ATCGCCACCC TTTTCAAGTT TGGCATGGGC CAACTCCAG AGATCAACCT	300
	CGCTAGCCAC TGTGACCTC AGAACACGG CTGCGCGCGC TTAAGCAGCG AAATCCAGCT	360
60	CGCCAGGAG CGTGGAGTCA AGGTGATGCT CTCCATCGGA GGTGGCGGTT CTTATGGCCT	420
	GAGTTCACCA GAAGACGCCA AGGACGTGGC GTCATACCTC TGGCACAGTT TCTTGGGTGG	480
	TTCTGTGCTG CGCTACTCTC GACCCCTCGG GGATGCGGTT CTGGATGGCA TAAACTTCAA	540
65	CATNCGGGA GGGAGCACAG AACACTATGA TGAACCTGCC GCTTTCCTCA AGGGCTACAA	600
	CGANCGGAA GCGGAACGA AAAAAGTTCA CTTGAATGCT GCTCCCCANT GTCTTCCCG	660
70	GATTACTGGC TTGGCAACGC NCTCCAAAAC AAATCTCTTC CACTTCTCTG GGGTGACANTC	720
	CTCCACAAAC CTTNNTGCAT TCTCCCAAA CCTATCAATC TTGCAAAATG CGTTCAACAA	780

TTNGGGTCTT TTCATCCCG CCCAAAAC

809

(2) INFORMATION FOR SEQ ID NO: 49:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 785 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:
 (B) CLONE: U-D90

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 49:

GGCAGGAGGA GAGACCGATA GCCTCCTCAT TCACTATGGC GATCCGATCG CCAGCTTCGC 60
 TGCTGTATT TGCCTTTCTG ATGCTTGCGC TCACAGGAAG ACTGCAGGCC GGGCGCAGCT 120
 CGTGCAATTGG CGTCTACTGG GGACAAAACA CAGACGAGGG AAGCTTAGCA GATGCTTGTG 180
 CCACAGGCAA CTACGAATAC GTGAACATCG CCACCTTTT CAAGTTTGGC ATGGGCCAAA 240
 CTCAGAGAT CAACCTCGCC GGCCACTGTG ACCCTCGGAA CAACGGCTGC GCGCGCTTAA 300
 GCAGAGAAAT CCACTCCTGC CAGGAGCGTG GAGTCACGGT GATGCTCTCC ATCGGAGGTG 360
 GCGGTCTTA TGGCCTGAGT TCCACCGAAG ACGCCAAGGA CGTGGCGTCA TACCTCTGGC 420
 ACAGTTTCTT GGGTGGTTCT GCTGCTCGCT ACTCTCGACC CCTCGGGAT GCGGTTCTGG 480
 ATGGCATANA CTTCAACATC GCCGGAGGGA GCACAGAACA CTATGATGAA CTTGCCGCTT 540
 TCCTCAAGCG CTACACGAG CAGGAAGCCG GAACGAAAAA AGTTTACTTG AATTGCTGCT 600
 CCGCANATATC CTTTCNGAT TACTGGCTTG GCAACNCT CCAAAAAANA TCTCTCCAC 660
 TTCCTGTTTG GTGCAGTTCT TCCAANAACC CTTTCTGCCC AAAAGCCTTT 720
 CCATCTTTGC AAATGCCTT CAACAATTGG GGTCTGTTC CNCCCTGCC CCAAAACTG 780
 TTCTT 785

(2) INFORMATION FOR SEQ ID NO: 50:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 813 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

(vii) IMMEDIATE SOURCE:
 (B) CLONE: U-D93

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:

GGCAGGAGCG ATAGCCTCCT CATTCACTAT GCGGATCCGA TCGCCAACCT CGCTGCTGTT 60
 ATTTCGCTTC CTGATGCTTG CGCTCAGGG AAGACTGCAG GCCCGGCCCA GCTCATGCAT 120

TGGGCTCTAC TGGGACAAA ACACCGACGA GGAAGCTTA GCAGATGCTT GTGCCACAGG 180
 CAACTACGAT TACGTGAACA TCGCCACCCT TTTCAAGTTT GGCATGGGCC AAACCTCAGA 240
 5 GATCAACCTC GCGCGCCACT GTGACCCCTG GAACAACGGC TGGGCGCGCT TGAGCAGCGA 300
 AATCCAGTCC TGCCAGGAGC GTGGCGTCAA GGTGATGCTC TCCATCGGAG GTGGCGGGTC 360
 10 TTATGGCCTG AGTTCCACCG AAGACGCCAA GGAAGTAGC GTCATACCTC TGGCACAGTT 420
 TCTTGGGTGG TTCTGTCTGT CGCTACTCGA GACCCCTCGG GGATGCGGAA CTGGATGGCA 480
 TANACTTCAA CATCGCCGGA GGGAGAACAG AACACTATGA TGAACTTGCC GCTTTCCTCA 540
 15 AGGCCTACAA CGANACGGAA GCGGAACNA AAAAAGTTCA CTGTAATTGC TGTCCCGCAG 600
 TGTCTTTCC CGGATTACTG GCTTGGCAAC GCATCAGAA CANATCTCTT CNACTTCTCTG 660
 TGGGTGCAAT TTCTCCACA ANCTTCCNT GCCATTCTCT CCAAAAAGCT ATCNATCTTG 720
 20 CAAATGCGTT CNACAATTGG GTCTTTTCCA NCTGNCNA AACTGTTCTT TGGGCTCCCG 780
 CTGCCCTGA AGGTGCNCCA ATTGGTGGCT NCT 813

(2) INFORMATION FOR SEQ ID NO: 51:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 819 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: cDNA

- (vii) IMMEDIATE SOURCE:
- (B) CLONE: U-D61

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:

GGCACTCAGG AACTCCAACA TCCAAGTCCT GTTGGATGTC CCGCATCCG AGTGCACTC 60
 45 ACTGGCTCC AATCCTTCGG CCGCGGCGA CTGGATCCGG AGGAACGTG TCGCTACTG 120
 GCCAGCGTC TCCTTCGAT ACATAGCTGT CGGAAACGAG CTGATCCCCG GATCGGATCT 180
 50 GGGCAGTAC ATCTCCCCG CCATGGCGAA CATCTACAAT GCTTTGCTCT CGGTGGCCT 240
 GCAAACCCAG ATCAAGGTCT CGACCGGGT CGACCGGGC GTCTCGGCA CGTCTACCC 300
 TCCTCCGCC GGGCCTTCT CCTCGCGCG CAGGCGTAC CTGAGCCCCA TGTGTCAGTT 360
 55 CTGGCGAGT AACGGAGCG CGCTCCTGGT CAATGTGTAC CCTATTTTA GCTACACCG 420
 CAACCGGGA CAGATCTCGC TGCCCTAGC CCGTTCACG GCCTCGGCG TCTCTCGGC 480
 60 GGATGGCGA TTCANCTATC AGAACCTGTT CGACGCCATC GTGACGCGG TCTCTCGGC 540
 GCCTGAAAAA AATGGGAAGG GCGAACGTGG CGGTGGTGT GTCCGAAAAA GGGTGGCCGT 600
 CCGCGGGCGG AAGAACCNA AACNAACACC ANCAACNCG CCGGAANTTT CAACCANAA 660
 65 TTGATCAGG ATGTTNGCG GAAGAACCCC AAGGAAAACC AGGGAAGGAA ATCAAGGCTT 720
 CNTNTTCCAA AANTTTCCAC CAAAAACNA AAGTGGANG GATCCAACAA AACTTTGGCC 780
 TGTTTTATCC CAANNAACAN CCNTCTTAC CNAATAACT 819

(2) INFORMATION FOR SEQ ID NO: 52: